

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) An ice supply system of a refrigerator, comprising:

an icemaker for producing ice using cool air of the freezer;

~~a container provided at a door enabling to be inserted into or withdrawn from the door 100 by being slid when the door is closed, the container being insertable into and detachable from a door of the refrigerator,~~ the container comprising:

an open top;

a first opening ~~provided at~~ on a side of the container;

a transfer device for rotating and transferring ice to the first opening; and

an outlet for discharging ice~~[[.]]~~;

a crusher for crushing ice transferred by the transfer device; and

an ice discharger ~~fixed at~~ located on the door for ~~controlling an opening and closing amount~~ adjusting a size of an opening of the outlet, the outlet being communicated with an ice chute ~~provided at~~ within the door.

2. (Currently Amended) The ice supply system of the refrigerator of claim 1, wherein the icemaker is ~~provided at~~ located adjacent to the door.

3. (Currently Amended) The ice supply system of the refrigerator of claim 1, wherein the icemaker is ~~provided~~ in the freezer.

4. (Currently Amended) The ice supply system of the refrigerator of claim 1, further comprising a guide ~~provided at~~ on the door for guiding a movement of the container so as to ~~slide~~ insert the container into the door smoothly.

5. (Currently Amended) The ice supply system of the refrigerator of claim 1, wherein the crusher is formed as a one piece ~~provided at~~ and is located on the door.

6. (Currently Amended) The ice supply system of the refrigerator of claim 5, wherein the crusher comprises:

a housing ~~provided at~~ located on the door, ~~the housing and~~ having a second opening ~~provided at~~ a side thereof to face the first opening;

a crushing member ~~provided in~~ within the housing, the crushing member being coupled with the transfer device when the container is inserted into the door, and crushing ice using at least one rotary blade; and

a motor ~~provided at the door and pivotally~~ coupled with the crushing member.

7. (Currently Amended) The ice supply system of the refrigerator of claim 6, wherein the crushing member comprises:

a shaft coupled with the motor, ~~and rotated~~ the shaft being rotatably and pivotally coupled with the transfer device when the container is inserted into the door; and

a supporter ~~provided in the housing for supporting the shaft, through which the shaft rotatably passes~~ passing through the supporter; and,

the at least one blade being coupled with the shaft for crushing the ice transferred into the housing.

8. (Original) The ice supply system of the refrigerator of claim 7, wherein the shaft comprises a groove and the transfer device comprises a projection inserted into the groove.

9. (Currently Amended) The ice supply system of the refrigerator of claim 1, wherein the ice discharger comprises:

an actuator operated in accordance with a signal of a controlling member; and

a shutter moved by the actuator for ~~controlling the opening and closing amount~~ adjusting the size of the opening of the outlet.

10. (Currently Amended) The ice supply system of the refrigerator of claim 9, wherein the ice discharger discharges ice crushed by the crusher to the ice shutter when the shutter slightly opens the outlet and the ice discharger directly discharges ice stored in the container when the shutter completely opens the outlet.

11. (Currently Amended) The ice supply system of the refrigerator of claim 1, wherein the crusher is ~~provided at~~ located on the door, and ~~the container and the crusher is~~ formed as two pieces ~~pivately~~ coupled with each other.

12. (Currently Amended) The ice supply system of the refrigerator of claim 11, wherein the crusher comprises:

a first housing ~~provided in~~ located on the door ~~and~~, the first housing having a second opening ~~provided at~~ on a side of the first housing to face the first opening;

a first crushing member ~~provided in~~ the housing ~~and~~ crushing ice using at least one rotary blade of the first crushing member;

a second housing ~~provided adjacent to the first opening in~~ the container adjacent to the first opening;

a second crushing member ~~provided in the second housing for being~~  
~~pivotally~~coupled with the transfer device, ~~pivotally~~for being coupled with the  
first crushing member when the container is inserted into the door, and  
crushing ice using at least one rotary blade of the second crushing member;  
and

a motor ~~provided at the door and~~ ~~pivotally~~coupled with the first crushing  
member.

13. (Currently Amended) The ice supply system of the refrigerator of  
claim 12, wherein each of the first and second crushing members comprises:

a shaft ~~pivotally~~being coupled with and ~~rotated~~rotating together with the  
motor or the transfer device; and

a supporter provided to support the shaft in each of the first and second  
 housings through which the shaft rotatably passes; ~~and,~~

the at least one blade being coupled with the shaft ~~and rotated,~~ the at  
least one blade rotating for crushing the ice transferred into the first ~~and or~~  
second housing.

14. (Currently Amended) The ice supply system of the refrigerator of  
claim 13, wherein the shaft of the first crushing member comprises a groove

Application No.: 10/776,535  
Art Unit: 3744

Attorney Docket No. 0465-1144P  
Amendment dated June 8, 2005  
Page 8

~~provided at~~ in a side thereof and the shaft of the second crushing member comprises a projection inserted into the groove.